

### **REMARKS**

Claims 1-39 were pending in the application. Claims 1-6, 8-12, 14-21 and 30-33 were withdrawn. Claims 7, 13, 22-23 and 28-39 are canceled. Claims 24-27 are amended. Claims 40-55 are new. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

### **REJECTION UNDER 35 U.S.C. § 102**

Claims 24, 25 and 27 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Wykes et al. (U.S. Pat. No. 4,562,546). This rejection is respectfully traversed.

Claims 24, 25 and 27 are amended. Independent claim 24 as amended recites "...processing a vibration signal ... to obtain a vibration canceling signal, the processing performed independent of the control system in a vibration canceling circuit mechanically mounted on the actuator, the vibration canceling circuit including a vibration sensor that provides the vibration signal; ... in the vibration canceling circuit, superimposing the vibration canceling signal on the provided command signal to generate a resultant driver signal; and operating the actuator with the resultant driver signal to cycle the structure to reduce the vibration of the wing."

Wykes et al. describes a computer 70 that receives sensor signals 30, 32, 34 and 36. The computer 70 combines, shapes and filters the sensor signals to generate attitude control signals and flutter control signals (FIG. 3; col. 4, lines 30-58). Thus Wykes et al. does not teach or suggest the recitations of amended claim 24. Applicant submits that when the recitations of claim 24 as amended are considered together with

the recitations of amended claims 25-27 and new claims 40-42 dependent on claim 24, claims 24-27 and 40-42 should be allowed.

Additionally, claim 25 is amended to recite "...performing the superimposing at a signal frequency exceeding the operating frequency of the command signal." Wykes et al. does not teach or suggest the recitations of amended claim 25.

#### **REJECTION UNDER 35 U.S.C. § 103**

Claim 26 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Wykes et al. (U.S. Pat. No. 4,562,546) in view of Allaei (U.S. Pat. No. 6,394,242). This rejection is respectfully traversed.

As discussed above, Wykes et al. teach a computer that processes sensor signals to generate attitude control signals and flutter control signals and thus do not teach or suggest the recitations of claim 24 as amended. Accordingly, amended claim 26 (dependent on amended claim 24) should be allowed.

#### **NEW CLAIMS**

Claims 40-55 are new. Claims 40-42 depend from amended claim 24 and are supported in the specification. New claims 43-55 recite methods of damping vibrations of a wing of an aircraft and are also supported in the specification. Applicant respectfully submits that new claims 40-45 are allowable in view of Wykes et al. and Allaei.

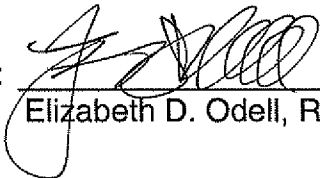
#### **CONCLUSION**

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests

that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action and the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (314) 726-7521.

Respectfully submitted,

Dated: August 30, 2007

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